

THREE NEW ANNONACEAE FROM PANAMA¹

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ANAXAGOREA Allenii R. E. Fr. n. sp.—Arbor circ. 6 m. alta; ramuli novelli brevissime rufo-tomentelli. Foliorum petiolus 10–12 mm. longus, crassus; lamina papyracea, (exsiccata) flavo-viridis, supra glaberrima laevisque, subtus demum glaber et pallidior, oblongo-lanceolata, basi rotundata, apicem versus sensim longaeque angustata, 30–35 cm. longa et 8–10 cm. lata; costa supra subplana, subtus valde prominens, teres, rugosus; nervi laterales I. utrinque circ. 15, sub angulo circ. 80° exeuntes, deinde sursum curvati, sicut venulae subtus paulo elevatae. Pedicelli florum breves (3–5 mm. longi), crassi, sicut sepala et petala rufo-tomentelli, juxta calycem bractea vaginaeformi instructi. Sepala ovato-orbicularia, apice rotundata, non recurvata, 7–10 mm. longa. Petala crassa, exteriora oblonga, apicem rotundatum versus haud angustata intus apicem versus carinata, ad 12 mm. longa et 5 mm. lata; petala interiora lanceolata, acutissima, ad mediam partem pilosa et supra medium intus carinata. Stamina linearia, 3 mm. longa; appendix connectivi tenuis, circ. 0, 7 mm. longa, apice rotundato-truncata. (Fructus ignotus).

CANAL ZONE: Quebrada López, alt. 30 m., in flower, Feb. 11, 1940, P. H. Allen 2143 (Type in Herb. Missouri Bot. Garden).

This species is very like the *Anaxagorea crassipetala* Hemsl., found in Guatemala and Nicaragua, but differs from this especially in its leaves being larger, rounded at the base, and with much-elongated, almost thread-like apices; in its pedicels being short and thick, in its sepals being longer and of rounded oval, not triangular-shape, and its outer petals longer and not tapering toward their apices. It is also similar to *Anaxagorea dolichocarpa* Sprague and Sandwith, from which it differs by sepals rounded at the tips and not retroflexed, short inner petals, shorter stamens, etc.

UNONOPSIS panamensis R. E. Fr. n. sp.—Ramuli novelli pilis brevibus ferrugineis erecto-adpressis vestiti. Foliorum petiolus teres vel supra planus, tomentellus, 4–5 mm. longus; lamina chartacea, exsiccata flavo-virens, supra laevis et primo in costa minute hirsuta, demum omnino glabra, subtus in costa hirsuta glabrescens, oblongo-oblancoolata, supra medium latissima, basi breviter acuta, apice abrupte contracta et 1–1.5 cm. longe cuspidata, 15–20 cm. longa et 4–5 cm. lata; costa utrinque elevata; nervi validiores utrinque circ. 15, arcuatim adscendentes et 1–2 mm. a margine conjuncti, tenues et supra elevati; reticulum venularum in foliis adultis haud conspicuum. Inflorescentiae ex axillis foliorum delapsorum evolutae; pedicelli florum crassi, ferrugineo-sericei, breves (7 mm. longi vel ultra?), paulo supra basin articulati. Sepala inter se libera, rotundato-ovata, acutiuscula, circ. 2 mm. longa. Petala rigida, exsiccata nigrescentia, exteriora rotundata et extra ferrugineo-sericea, circ. 7 mm. in diam., interiora minora, secundum nervum medium ferrugineo-tomentosa. Stamina 1.8–2 mm. longa,

¹Issued June 23, 1955.

apice truncata. Ovaria 1, 5 mm. longa, prismatica et breviter strigosa, stigmatibus globoso-ovoideo coronata; ovula 3-4, lateralia. (Fructus ignotus).

PANAMÁ: Cerro Campana, trail from Campana to Chica, alt. 600-800 m., with flowers Aug. 10, 1941, *Allen 2647* (Type in Herb. Missouri Bot. Garden).

The material is unfortunately scanty, with no fruits at all. The number and lateral positions of the ovules, however, prove it to be well differentiated from the Central American species *U. Pittieri* Saff. and *Schippii* R.E.Fr. Flowers of the third and last Central American species, *costaricensis* R.E.Fr. (*Acta Horti Bergiani* 13:105. 1941) are unknown so far, but its fruit structure with one single oblique to horizontal seed favours the view that, structurally, the flower agrees with that of *Pittieri-Schippii*, and accordingly differs from *panamensis*. *Unonopsis panamensis* also differs from *costaricensis* in having much larger and differently shaped leaves. In my survey of the species of this genus (*Acta Horti Bergiani* 12:237) *panamensis* should be ranged among the *guatteriodes*, *obovata*, and allied species, but cannot be joined to any of these.

GUATTERIA INUNCTA var. *caudata* R. E. Fr. nov. var.—Differt a typo foliis pro rata angustioribus, basi longe cuneato-angustatis, apice acumine 2-3.5 cm. longo caudiformi acutissimo ornatis, pedicellis florum tenuioribus.

BOCAS DEL TORO, vicinity of Chiriquí Lagoon, Old Bank Island, *von Wedel 2108* (Type in Herb. Missouri Bot. Garden).